

ABSTRACT

An apparatus for synthesizing a carbon nano-material is provided with a reaction gas supplier for supplying a reaction gas in isolation from atmospheric condition, a metallic catalyst supplier for supplying a metallic catalyst in isolation from atmospheric condition, a reactor communicating with the reaction gas supplier and the metallic catalyst supplier and providing a space for synthesis of the carbon nano-material, a heater, positioned outside the reactor, for heating the reactor to a temperature proper for the synthesis of the carbon nano-material, and a collector for collecting the carbon nano-material generated in the reactor.